

ABSTRACT

A superconducting cable according to the present invention includes a former (2), a superconducting conductor layer (3) formed around the outer circumference of the former (2), an electric insulating layer (4) formed around the outer circumference of the conductor layer (3), a shield layer (6) formed around the outer circumferential of the insulating layer (4), and a normal-conducting metal layer (5) formed between the insulating layer (4) and the shield layer (6). The normal-conducting metal layer (5) existing inside shield layer (6) has an inductance greater than that of the shield layer (6), which can suppress a rise in temperature in the event of accidents such as short-circuits, and also can reduce AC losses since currents flow through shield layer (6) during the passage of normal currents.